Docket No.: 43888-332 **PATENT** 

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of : Customer Number: 20277

Susumu KUWABATA, et al. : Confirmation Number: Not yet assigned

Serial No.: Not yet assigned : Group Art Unit: Not yet assigned

Filed: September 08, 2004 : Examiner: Not yet assigned

For: METHOD FOR QUANTITATING SUBSTRATE

## INFORMATION DISCLOSURE STATEMENT

Honorable Commissioner for Patents and Trademarks Washington, D. C. 20231

Sir:

In accordance with the provisions of 37 C.F.R. 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached form PTO-1449. It is respectfully requested that the references be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is being filed with the application and no certification or fee is required.

A copy of the foreign search report is attached for the Examiner's information. Please note this is a PCT application in the entry of the National Phase in the U.S. and copies of the references cited were transmitted by WIPO and are believed to be in the file of the above identified application and readily available to the Examiner. Therefore it is believed that Applicants have met all requirements regarding duty of disclosure under 37

Not yet assigned



CFR 1.56. Acknowledgement and consideration of these documents are respectfully requested.

A copy of the foreign search report is attached for the Examiner's information. Please note this is a PCT application in the entry of the National Phase in the U.S. However, to ensure that these references are available to the Examiner, we are providing copies of these references herewith. Since the Search Report was from the U.S. JPO or EPO search authorities, copies of these references should have been supplied to the USPTO under the trilateral agreement and are believed to be in the file of the above identified application and readily available to the Examiner.

Respectfully submitted,

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Date: September 8, 2004

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| INFO                   |             |                                                                                                                                                                                                                                                                                                              | ON DISCLOS                | SURE                                   | La contraction of the contractio |                                                      | SERIAL NO.  Not yet assigned                                                    |               |  |
| APPLICATION (PTO-1449) |             |                                                                                                                                                                                                                                                                                                              |                           |                                        | 10/507010                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                      |                                                                                 |               |  |
|                        |             |                                                                                                                                                                                                                                                                                                              |                           |                                        | APPLICANT Susumu KUWABATA, et al.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                      |                                                                                 |               |  |
|                        |             |                                                                                                                                                                                                                                                                                                              |                           |                                        | 1.15.1.15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                      | GROUP<br>Not yet assigned                                                       |               |  |
|                        |             |                                                                                                                                                                                                                                                                                                              |                           | U.S. PATEN                             | T DOCUMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                      |                                                                                 |               |  |
| EXAMINER'S<br>INITIALS | CITE<br>NO. | Document Number<br>Number-Kind Code2 (# known)                                                                                                                                                                                                                                                               |                           | Publication Date<br>MM-DD-YYYY         | Name of Patentee or Applicant of Ci<br>Document                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                      | Pages, Columns, Lines, Where<br>Relevant Passages or Relevant<br>Figures Appear |               |  |
|                        |             | US                                                                                                                                                                                                                                                                                                           | 6,340,428 B1              | 01/22/2002                             | lkeda et al.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                      |                                                                                 |               |  |
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|                        |             | ÜS                                                                                                                                                                                                                                                                                                           |                           |                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                      |                                                                                 |               |  |
|                        |             | ÜS                                                                                                                                                                                                                                                                                                           |                           |                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                      |                                                                                 |               |  |
|                        |             | US                                                                                                                                                                                                                                                                                                           |                           |                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                      |                                                                                 |               |  |
|                        |             | 05                                                                                                                                                                                                                                                                                                           |                           | FOREIGN PA                             | TENT DOCUMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                      |                                                                                 |               |  |
| EXAMINER'S             |             | Fore                                                                                                                                                                                                                                                                                                         | ign Patent Document       | Publication Date                       | Name of Patentee or                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Pages,                                               | Translati                                                                       | on            |  |
| INITIALS               | CITE<br>NO. | Country Codes -Number 4 -Kind<br>Codes (if known)                                                                                                                                                                                                                                                            |                           | MM-DD-YYYY                             | Applicant of Cited Document                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Columns<br>Lines Who<br>Relevar<br>Figures<br>Appear | s Where<br>levant<br>gures<br>opear                                             |               |  |
|                        |             | ļ                                                                                                                                                                                                                                                                                                            |                           |                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                      | Yes                                                                             | No            |  |
|                        |             |                                                                                                                                                                                                                                                                                                              | JP 03-202764              | 09/04/1991                             | MATSUSHITA ELECTRIC<br>IND CO LTD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                      | JAPAN<br>(w/English<br>Abstract)                                                |               |  |
|                        |             |                                                                                                                                                                                                                                                                                                              | WO 97/39343               | 10/23/1997                             | BRITISH NUCLEAR FUELS<br>PLC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                      | х                                                                               |               |  |
|                        |             |                                                                                                                                                                                                                                                                                                              | JP 9-159642               | 06/20/1997                             | DAINIPPON PRINTING CO<br>LTD.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                      | JAPAN<br>(W/English<br>Abstract)                                                |               |  |
|                        |             |                                                                                                                                                                                                                                                                                                              | JP 5-215709               | 08/24/1993                             | NGK SPARK PLUG CO LTD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                      | JAPAN<br>(W/English<br>Abstract)                                                |               |  |
| <del></del>            |             |                                                                                                                                                                                                                                                                                                              | WO 99/32881               | 07/01/1999                             | ROCHE DIAGNOSTICS CORPORATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                      | х                                                                               |               |  |
|                        |             |                                                                                                                                                                                                                                                                                                              | OTHER A                   | RT (Including Author                   | or, Title, Date, Pertinent Pages, E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | tc.)                                                 | Sarkin Paris Surresu                                                            |               |  |
| EXAMINER'S<br>INITIALS | CITE<br>NO. | include<br>journal<br>publish                                                                                                                                                                                                                                                                                | , serial, symposium, cata | CAPITAL LETTER<br>log, etc.), date, pa | S), title of the article (when approp<br>ge(s), volume-issue number(s), p                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | oriate), title<br>ublisher, cit                      | of the item (book, magazine<br>y and/or country where                           |               |  |
|                        |             | WANG, Joseph., et al. "Enhanced Selectivity and Sensitivity of First-Generation Enzyme Electrodes Based on the Coupling of Rhodinized Carbon Paste Transducers and Permselective Poly(o-phenylenediamine) Coatings."  Electro                                                                                |                           |                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                      |                                                                                 |               |  |
|                        |             | "The 68thConvention of the Electrochemical Society of Japan Lecture Summary." April 1-3, 2001, Kobe University,<br>Engineering Department, pp. 6 Total                                                                                                                                                       |                           |                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                      |                                                                                 |               |  |
|                        |             | IINO, Satoshi, "Bisho Denkyoku o Mochiru Denki Kagaku Sokutei-ho" February 10, 1998, pages 136-139 & 244-245                                                                                                                                                                                                 |                           |                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                      |                                                                                 |               |  |
|                        |             | CRUMBLISS, Alvin L., et al." The Electrochemistry of Hexacyanoruthenate at Carbon Electrodes and the use of Ruthenium Compounds as Mediators in the Glucose/Glucose Oxidase System." Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, July 10, 1986, Volume 206, No. 1-2, pp.327-331 |                           |                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                      |                                                                                 |               |  |
|                        |             | EXA                                                                                                                                                                                                                                                                                                          | MINER                     |                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | DATE CON                                             | NSIDERED                                                                        |               |  |

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.